

Title (en)  
SYSTEM AND METHOD OF WIRELESS COMMUNICATION OF UNCOMPRESSED VIDEO HAVING A FAST FOURIER TRANSFORM-BASED CHANNEL INTERLEAVER

Title (de)  
SYSTEM UND VERFAHREN ZUR DRAHTLOSEN ÜBERMITTLUNG VON UNKOMPRIMIERTEM VIDEO MIT EINEM AUF SCHNELLER FOURIERTRANSFORMATION BASIERENDEM KANALVERSCHACHTELER

Title (fr)  
SYSTÈME ET PROCÉDÉ DE COMMUNICATION SANS FIL DE VIDÉO NON COMPRIMÉE COMPRENANT UN ENTRLACEUR DE VOIES À BASE DE TRANSFORMATION RAPIDE DE FOURIER

Publication  
**EP 2039105 A1 20090325 (EN)**

Application  
**EP 07768500 A 20070627**

Priority  
• KR 2007003125 W 20070627  
• US 81752406 P 20060628  
• US 71733407 A 20070312

Abstract (en)  
[origin: WO2008002078A1] A system and a method of using fast Fourier transform (FFT) based tone interleaver for OFDM are disclosed. One embodiment of the system includes an OFDM transmitter, which includes an inverse fast Fourier transform (IFFT) subsystem. The IFFT subsystem includes a bit-reversal (or quaternary-digit reversal depending on implementation) module followed by a butterfly operator. The bit-reversal (or quaternary-digit reversal) module output is connected to the butterfly operator input. The OFDM transmitter further includes a tone interleaver having an input and an output. The symbol interleaver output is connected to the bit reversal (or quaternary-digit reversal) module input. The tone interleaver is configured to rearrange the input symbol sequence such that the symbol sequence input to the tone interleaver input is the same as the symbol sequence input to the butterfly operator input.

IPC 8 full level  
**H04L 27/26** (2006.01); **H04B 1/16** (2006.01); **H04L 1/00** (2006.01)

CPC (source: EP KR US)  
**H04B 1/16** (2013.01 - KR); **H04L 27/263** (2013.01 - EP US); **H04L 65/00** (2013.01 - KR); **H04N 7/015** (2013.01 - KR); **H04N 7/12** (2013.01 - KR); **H04L 1/0056** (2013.01 - EP US); **H04L 1/0071** (2013.01 - EP US)

Designated contracting state (EPC)  
DE NL

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**WO 2008002078 A1 20080103**; CN 101480011 A 20090708; CN 101480011 B 20120704; EP 2039105 A1 20090325; EP 2039105 A4 20140611; EP 2039105 B1 20190313; KR 101442617 B1 20140923; KR 20090021330 A 20090303; MX 2008016536 A 20090119; US 2008002782 A1 20080103; US 8107552 B2 20120131

DOCDB simple family (application)  
**KR 2007003125 W 20070627**; CN 200780024169 A 20070627; EP 07768500 A 20070627; KR 20087010580 A 20070627; MX 2008016536 A 20070627; US 71733407 A 20070312